Medi-Cal Acuity Study
Seniors and Persons with Disabilities (SPD)

Introduction

The California HealthCare Foundation (CHCF) has contracted with Mercer Government Human Services Consulting (Mercer), to provide technical assistance in support of the Department of Health Care Services' (DHCS) 1115 Waiver Stakeholder Process. At the request of CHCF and DHCS Mercer conducted a risk analysis comparing certain groups of the Medi-Cal Fee-for-Service (FFS) and Managed Care (MC) populations.

The specific objective of this study is to understand whether the populations of seniors and persons with disabilities (SPD) without Medicare coverage currently served by local initiative and commercial Medi-Cal MC plans in the Two-Plan model counties differs from the Medi-Cal SPD population in the FFS program and, if so, to understand these differences.

Methodology

Mercer utilized a risk adjustment model to evaluate the SPD members' health acuity for FFS and MC members enrolled in the Medi-Cal program. This study was limited to only members residing within the Two-Plan model counties, using data from January 1, 2008, through December 31, 2008 (CY08). Within the risk adjustment model, the data were used in conjunction with member demographics (age/gender categories) to measure both the FFS and MC plans' health risk using "risk scores". Risk scores are relative values that indicate population health acuity. This is more fully discussed later in this section.

The pharmacy data were determined to be the most accurate and complete source of claims-level information for the Medi-Cal Managed Care program. As such, the Medicaid Rx model was used to evaluate the SPD FFS and MC members' health acuity within this study. The Medicaid Rx model may assign each member to one or more of 45 medical condition categories based on the prescription drugs used by each member and to one of 11 age/gender categories. Background on the Medicaid Rx model and a listing of the 45 disease conditions and age/gender categories can be found within Appendix A of this document.

The cornerstone of any risk-adjustment process is the data used to identify member demographics and to classify members into disease conditions. Consistent with the Medicaid Rx model development, twelve months of data were used to measure the anticipated health risk for each recipient. This twelve-month time period is referred to as the study period. As previously mentioned, claims incurred during CY08 with process dates

through November 2009 were used in the study. With eleven months of data lag, the claims/encounters were deemed to be complete. Although the health plans are not at risk for claims paid by FFS (and the risk adjustment model was adjusted accordingly) for health plan enrolled members, pharmacy claims paid through the FFS program were also included in the analysis for disease condition flagging purposes. This approach also insures equal treatment for both FFS and MC members (i.e., consideration of their total Medi-Cal coverage).

Using the data in the study period, each recipient was processed through the Medicaid Rx model. This step resulted in recipients being assigned to demographic categories and flagged for disease conditions. For demographic classifications each recipient's age was calculated on December 31, 2008, the end of the study period. This information was then combined with the cost weight associated with each of the applicable Medicaid Rx model categories (see Appendix B for the cost weights applied for each disease condition). The combination of the Medicaid Rx categories and the appropriate cost weights produced an individual acuity factor and risk profile for each recipient. Acuity factors were only developed for recipients with at least six months of Medi-Cal eligibility within the twelve-month study period. The six month requirement was used to reduce any underreporting for individuals that were newly eligible to the program. Medi-Cal eligibility included FFS and MC enrollment segments. The six-month scoring criteria did not require continuous eligibility. Members that did not have six months of eligibility within CY08 were excluded from this study.

Acuity factors were derived for each of the applicable members. Using these individual factors, aggregated FFS and MC plan risk scores were developed. Aggregated risk scores were calculated using a straight average of the acuity factors assigned to members enrolled within FFS and each MC plan as of December 31, 2008. These straight average population values produced using Medicaid Rx are referred to as unadjusted risk scores (i.e., "raw risk scores").

The unadjusted values were then normalized in order for the risk scores to be compared on a relative basis for each county and for ease of explanation. After the normalization process, a value of 1.000 would represent the average for each county. Each normalized program risk score could then be evaluated in comparison to the 1.000 average. For example, a population with an average risk score of 1.200 would represent a population that has projected costs of 1.2 times the overall county average.

Study Analysis

The following sections summarize the various components of the study Mercer performed and conclusions for the overall SPD risk assessment. It is important to note that data anomalies can have an impact on the study results. To the extent that the FFS or MC data were not accurate and/or complete, the conclusions drawn from this study may be different than reported herein. Mercer has performed high level data validation to ensure that NDCs were accurate and that claims/encounter volume looked reasonable. Mercer did not formally audit the pharmacy data.

FFS and MC Plan Risk Scores

On a county by county basis, neither the FFS nor the MC program seemed to have a consistently lower or higher risk pattern. In fact, the risk scores indicated that the MC enrollees had higher health acuity (sicker members) in 6 of the 12 Two-Plan counties, while having lower health acuity (healthier members) in the remaining 6 counties. When looking separately at the MC health plan's (two per county) and FFS totals for each county, the top 7 out of 36 overall highest acuity Two-Plan model SPD population groups are enrolled in commercial MC health plans. Across all counties, the FFS program showed a moderately higher risk score. However, by removing Los Angeles County, the overall risk score relationship is reversed, and shows the MC program population as having a moderately higher risk score.

Mercer also evaluated the differences in the local initiative and commercial MC plans' risk scores. Similar to the comparisons of the overall FFS and MC programs, there was not a consistently higher or lower risk score differential amongst the health plans. In some counties, the local initiatives served members with higher average acuity and in other counties commercial health plans were shown to serve higher acuity members. It appears from the analysis that the local initiative and commercial health plans as a whole did not enroll members with significantly different risk characteristics and were combined together for the MC program results referenced throughout this study.

Table 1.0 summarizes the county by county enrollment and risk score information that was evaluated. For the rest of this study, Mercer focused on looking into the key drivers of the two populations' overall risk by using disease prevalence reports and other information derived from the risk assessment of SPD members.

Table 1.0 Summary of FFS and MC Enrollment and Risk Scores

| County	System	Enrollment	Distribution	Unadjusted Risk Score	Normalized Risk Score	% FFS over/under MC
Alameda	Managed Care	8,670	27.9%	1.161	1.032	
	Fee-for-Service	22,356	72.1%	1.111	0.988	
	Total	31,026	100.0%	1.125	1.000	-4.3%
Contra Costa	Managed Care	4,359	27.7%	1.148	1.029	
	Fee-for-Service	11,366	72.3%	1.104	0.989	
	Total	15,725	100.0%	1.116	1.000	-3.9%
Fresno	Managed Care	8,060	34.8%	1.435	1.079	
	Fee-for-Service	15,089	65.2%	1.274	0.958	
	Total	23,149	100.0%	1.330	1.000	-11.2%
Kern	Managed Care	6,524	33.8%	1.236	0.997	
	Fee-for-Service	12,782	66.2%	1.242	1.001	
	Total	19,306	100.0%	1.240	1.000	0.4%
Los Angeles	Managed Care	42,788	20.7%	1.131	0.894	
	Fee-for-Service	163,531	79.3%	1.300	1.028	
	Total	206,319	100.0%	1.265	1.000	15.0%
Riverside	Managed Care	7,309	24.6%	1.179	0.940	
	Fee-for-Service	22,393	75.4%	1.280	1.020	
	Total	29,702	100.0%	1.255	1.000	8.5%
San Bernardino	Managed Care	8,697	22.0%	1.182	0.934	
	Fee-for-Service	30,782	78.0%	1.289	1.019	
	Total	39,479	100.0%	1.265	1.000	9.0%
San Francisco	Managed Care	2,662	13.9%	1.120	0.948	
	Fee-for-Service	16,442	86.1%	1.191	1.008	
	Total	19,104	100.0%	1.181	1.000	6.4%
San Joaquin	Managed Care	5,455	30.5%	1.145	0.954	
	Fee-for-Service	12,412	69.5%	1.225	1.020	
	Total	17,867	100.0%	1.201	1.000	7.0%
Santa Clara	Managed Care	5,826	25.1%	1.200	1.019	
	Fee-for-Service	17,419	74.9%	1.170	0.994	
	Total	23,245	100.0%	1.178	1.000	-2.5%
Stanislaus	Managed Care	3,132	26.0%	1.412	1.056	
	Fee-for-Service	8,920	74.0%	1.311	0.980	
	Total	12,052	100.0%	1.337	1.000	-7.1%
Tulare	Managed Care	3,351	32.9%	1.464	1.055	
	Fee-for-Service	6,820	67.1%	1.350	0.973	
	Total	10,171	100.0%	1.388	1.000	-7.8%

NOTE: Member counts represent only those members with six months of eligibility within CY08.

Managed Care Penetration

The implementation of a voluntary managed care enrollment policy can have an effect on the health risk assumed by the FFS and MC programs. The typical assumption is that members that enroll through auto-assignment are healthier on average than members that initiate some form of choice when being placed in their respective program. Because of the voluntary enrollment situation, most, if not all SPD members in the Two-Plan model counties are making a choice to join. In that regard, it isn't surprising to find out that the MC population risk for these counties is similar to the FFS population risk.

For all of the Two-Plan counties, the majority of SPD members are enrolled in FFS. Mercer analyzed the risk scores by county to determine if the managed care penetration rate had any correlation to the differences in health risk assumed by the two different programs. Chart 1.0 shows the risk scores and penetration rate for all the Two-Plan model counties in order of managed care penetration percentages (lowest to highest).

Chart 1.0 Risk Scores and Managed Care Penetration by County
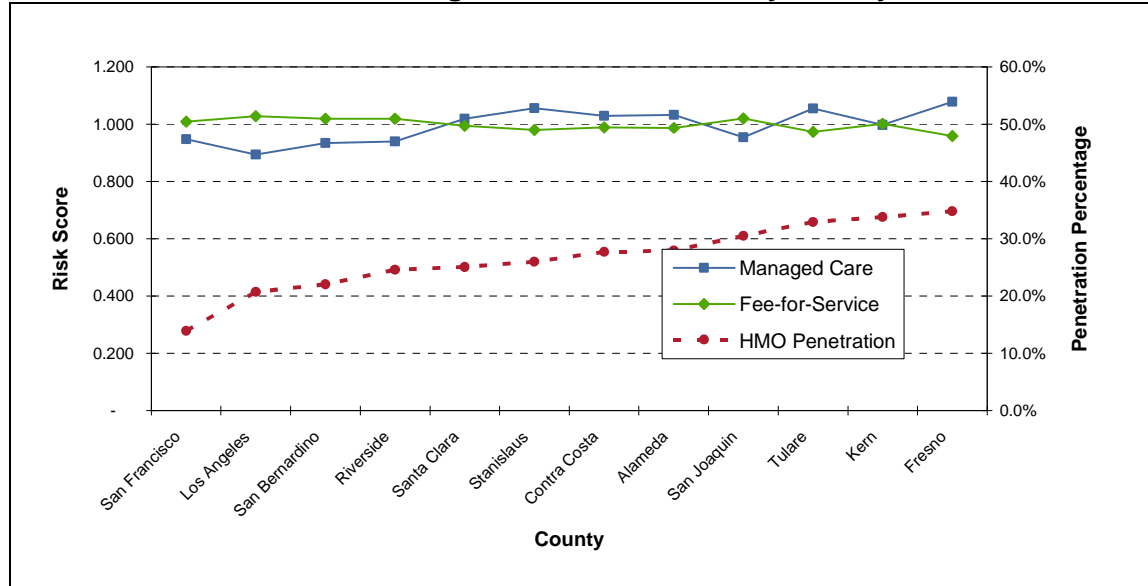
NOTE: Two-Plan model counties are listed in order of managed care penetration (lowest to highest).

Overall, there appears to be a slight upward trend of risk score for MC and a slight downward trend for FFS risk score as the managed care penetration percentages increase. However, there does not seem to be any overwhelming evidence that penetration rates alone account for differences seen in MC versus FFS risk scores. One conclusion that could be drawn from this analysis is that there are still relatively large groups of healthier than county-average members that continue to reside in the FFS program.

Member Demographics

As mentioned previously, the Medicaid Rx model places members into 11 age/gender categories. The disease conditions have a much higher weighting within the Medicaid Rx model since member demographics are less predictive of future cost. However, looking at demographic distributions can help interpret overall risk scores since inherently, some age/gender bands will have a higher proportion of certain disease conditions. For example, while the demographic factors alone may not differentiate much amongst age/gender groups, once you combine the disease information you might expect more Cardiac conditions amongst an aging population and more Asthma/COPD within a younger population group. Hence, an older population may have a higher acuity than a younger population because they will receive the greater weighting for things such as cardiac conditions. Understanding the demographic mix of a certain population can further help to explain differences in overall disease prevalence and risk scores. Table 2.0 summarizes the member distribution for FFS and MC using the Medicaid Rx age/gender categories.

Table 2.0 Medicaid Rx Age/Gender Distributions

Age/Gender Categories	Managed Care	Fee-for-Service	Total
Under Age 1	0.4%	0.2%	0.2%
Age 1 to 4	6.2%	1.7%	2.8%
Age 5 to 14 Male	16.3%	5.0%	7.7%
Age 5 to 14 Female	7.4%	2.7%	3.8%
Age 14 to 24 Male	10.6%	7.0%	7.8%
Age 14 to 24 Female	6.8%	4.3%	4.9%
Age 25 to 44 Male	4.8%	10.6%	9.2%
Age 25 to 44 Female	10.7%	8.4%	8.9%
Age 45 to 64 Male	8.6%	20.3%	17.5%
Age 45 to 64 Female	21.3%	24.4%	23.7%
Age 65+ Male and Female	6.8%	15.6%	13.5%
Total	**100.0%**	**100.0%**	**100.0%**

Mercer combined the above populations into further subgroups to better understand the mix of members within the FFS and MC programs. The results indicated that a significantly higher proportion of age 45+ individuals reside in FFS. Conversely, a higher proportion of age 0 to 14 Male/Female members reside in managed care. These differences in demographic mix are consistent with the disease prevalence results and show that demographics may be a driver in the moderate differences in overall risk scores between the MC and FFS programs. Chart 2.0 on the following page shows the member distributions by the three major sub-groups that were evaluated.

Chart 2.0 Demographic Distribution for MC and FFS
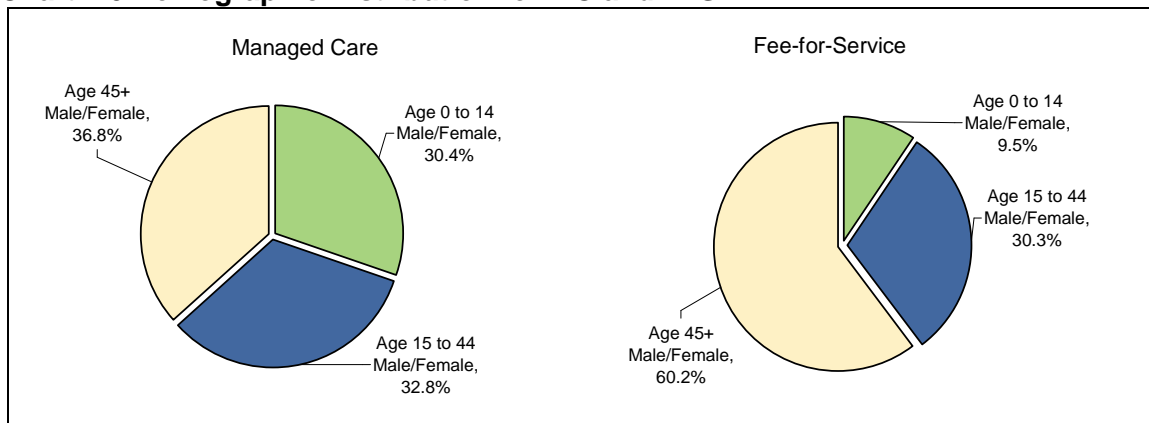
Disease Prevalence and Impact Rank

As mentioned previously, the Medicaid Rx model identifies 45 specific disease conditions to create individual acuity factors and member level risk profiles. The member level risk profile lists all of the disease conditions flagged for particular member and can be used to derive the overall population's disease prevalence (i.e., number of individuals within the study group with a certain condition). More information on disease prevalence reports can be found in Appendix C.

Mercer identified the 10 highest impact (observations × expected cost) disease conditions for the entire population, and then summarized for the FFS and MC members. Overall, it would appear that the FFS and MC programs serve members with similar disease conditions, with FFS having moderately higher prevalence rates in many cases. There does not appear to be significantly different types of conditions found in either program. Table 3.0 lists the 10 highest impact conditions for both FFS and MC. Notice that 9 of the top 10 conditions are common between the two populations. That is to say, 9 of the top 10 conditions are in the top 10 for both the MC and the FFS populations.

Table 3.0 10 Highest Impact Conditions

Rank	Managed Care	Fee-for-Service
1	Seizure Disorders	Cardiac
2	Cardiac	Seizure Disorders
3	Asthma/COPD	Gastric Acid Disorder
4	Multiple Sclerosis/Paralysis	ESRD/Renal
5	Gastric Acid Disorder	Diabetes
6	Infections, Medium	Infections, Medium
7	Diabetes	Asthma/COPD
8	ESRD/Renal	Pain
9	Pain	Anti-coagulants
10	Inflammatory/Autoimmune	Multiple Sclerosis/Paralysis

Chart 3.0 below displays the prevalence rates for the 10 highest impact disease conditions for both programs combined, in order of FFS disease prevalence. The prevalence rates for all 45 disease conditions for both programs can be found in Appendix C. For many of the highest impact disease conditions, there was a moderately higher proportion of disease prevalence within the FFS program. However, in some instances such as Asthma/COPD, there was a higher incidence rate within the MC program.

Chart 3.0 Medicaid Rx Prevalence by Top 10 Disease Conditions
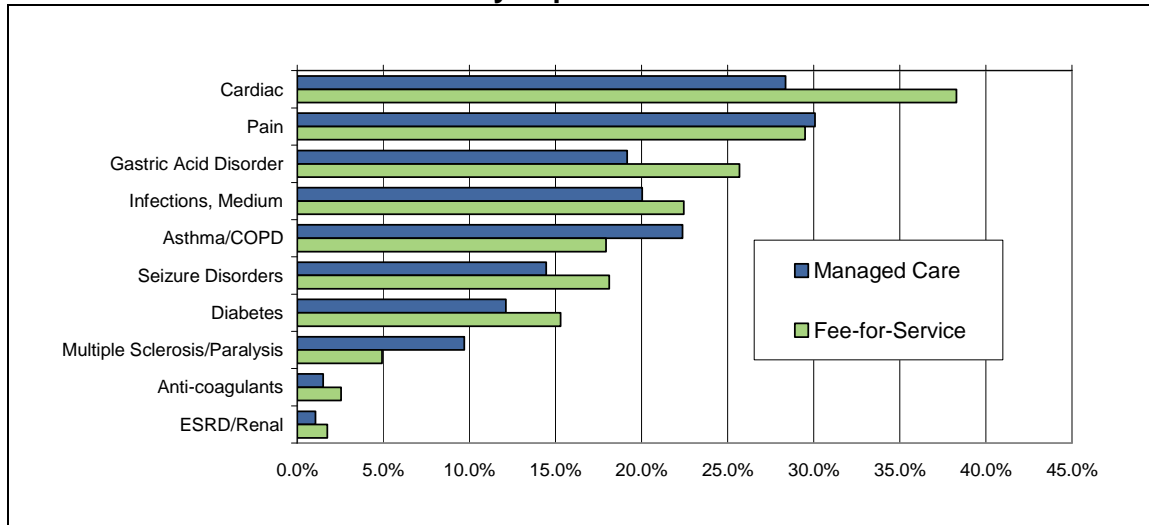
NOTE: Disease conditions are ordered from top to bottom by order of FFS disease prevalence. Conditions represent the top 10 conditions found for both FFS and MC across all Two-Plan counties.

Risk Distribution

Especially for aged and/or disabled groups, there can be a wide distribution of member acuity factors across populations that may not be readily observed from overall average program risk scores. For example, one group could have a range of individual acuity factors from 0.880 to 2.100 and another program could have factors ranging from 0.550 to 8.000. When all members are aggregated, these two programs could have similar average population risk scores, but very different conditions on the high and low ends of the spectrum. Mercer analyzed the distribution of individual acuity factors observed in the FFS and MC populations to see if there were any major differences in risk distribution between the two programs. As shown in Chart 4.0 on the following page, the distributions of individual acuity factors were very comparable between FFS and MC populations.

Chart 4.0 Distribution of Individual Acuity Factors
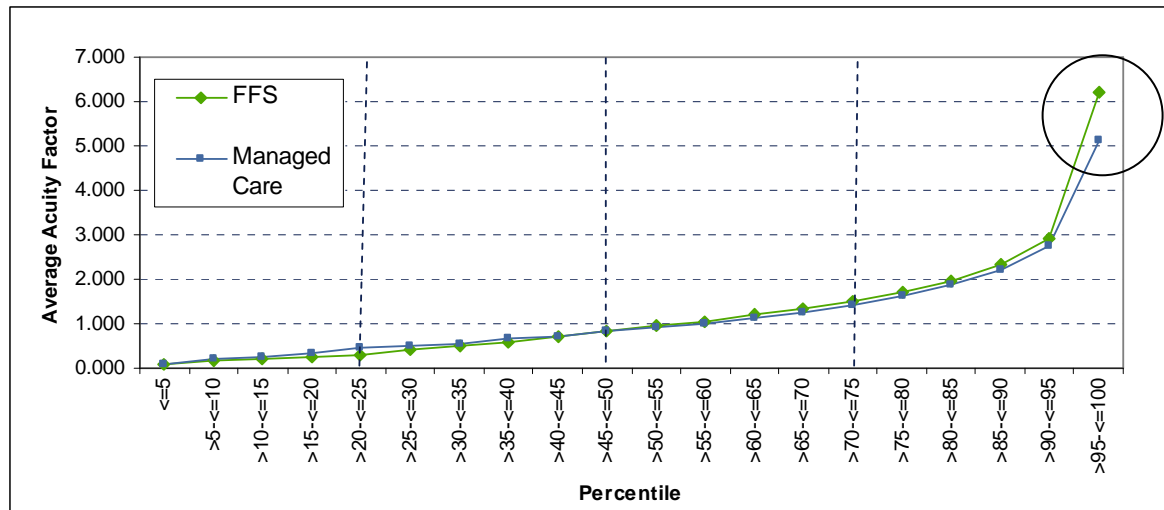
Chart 4.0 above was developed by ranking each member within each population from top to bottom using individual Medicaid Rx computed acuity factors. FFS and MC members were then grouped into 5 percentile averages for comparison purposes. While the FFS members have higher average acuity factors in many instances, overall, the distribution is relatively consistent between the two population groups. The one single instance where FFS had significantly higher average risk scores was for individuals in the top 5 percentile group. In this percentile group FFS members had an average unadjusted individual acuity factor of 6.206 while managed care members had an average factor of 5.115.

To further investigate the risk characteristics of members with the highest scores in each group, Mercer researched the disease prevalence to see if there were particular disease categories driving the difference in overall risk. For the most part, the same types of conditions that were driving the overall program risk scores were apparent within the top 5% group (see Chart 4.1 on the following page). However, the major difference between the 5% highest acuity group was the prevalence rate associated with each of the disease condition drivers. For example, the overall disease prevalence for Cardiac conditions found in the total population for both programs was roughly 28 – 38%. For the top 5% highest acuity group, the disease prevalence for the same cardiac conditions was between roughly 73 – 79%. Although some differences did exist that may have accounted for some of the difference in overall risk scores, the types of conditions driving the acuity was fairly consistent between the FFS and MC groups.

Chart 4.1 Disease Prevalence for Top 5% Individual Acuity
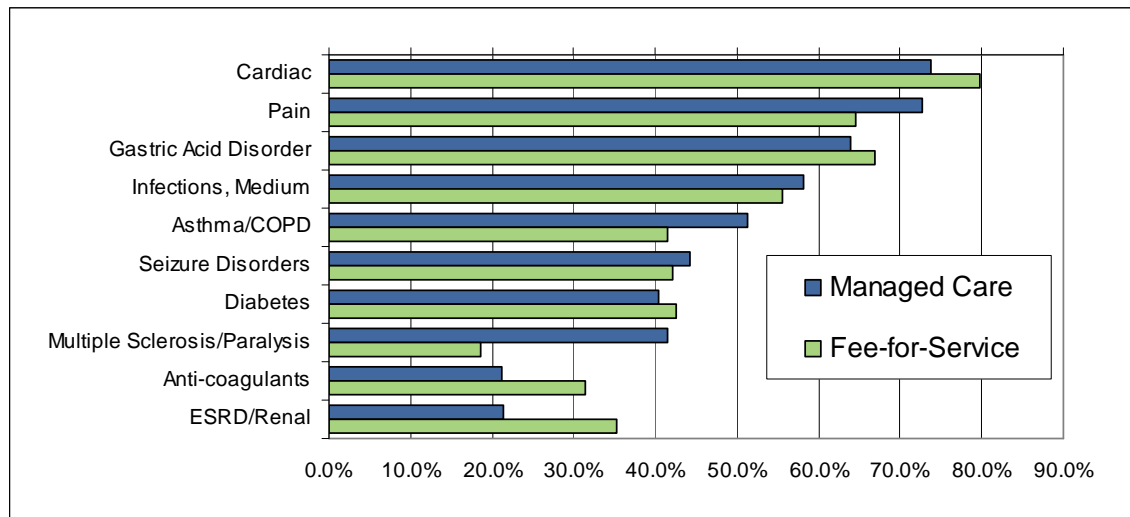
Mercer also analyzed the average number of co-morbidities for the top 5% members to see if there were any significant differences between FFS and MC members. The average number of co-morbidities was determined by summing each individual's disease condition flags and then calculating an average for all individuals enrolled in each program. The results were very consistent amongst each group. The FFS members had 9.16 and the MC members had 9.20 average disease condition flags. The disease prevalence and average number of disease conditions for both FFS and MC recipients in the top 5% gave no indication that these members had significantly different risk characteristics between the two programs.

Risk Scores versus Actual Cost

Mercer evaluated the risk score factors calculated for the FFS and MC programs in conjunction with the actual PMPM costs reported for CY08. Mercer utilized paid claims for services reimbursed by the State on a FFS basis (for both FFS and MC plans) and rate development templates (RDT) to capture managed care costs that are reimbursed through capitated premiums paid by the State. The RDTs contain health plan reported medical and pharmacy expense information used by Mercer as one of the data sources to develop the Medi-Cal managed care capitation rates. As shown in Table 4.0 and Chart 5.0, as the differential in risk scores increase/decrease, there is a coinciding increase/decrease to the overall PMPM differential costs by county. The chart also shows fairly consistent discrepancies between the differences in overall calculated acuity and actual dollars spent on a county by county basis. These discrepancies highlight the cost impact that managed care may have in controlling unit cost and utilization of medical/pharmacy services.

Table 4.0 Risk Score vs. Cost Differential by County

County	Managed Care Enrollment	PMPM Differential			Risk Score Differential		
		Managed Care	FFS	% FFS over/under MC	Managed Care	FFS	% FFS over/under MC
San Francisco	2,674	1.502	0.924	-38.5%	0.948	1.008	6.4%
Stanislaus	3,160	0.926	1.025	10.6%	1.056	0.981	-7.2%
Tulare	3,379	0.946	1.025	8.4%	1.056	0.973	-7.8%
Contra Costa	4,383	0.997	1.001	0.4%	1.029	0.989	-3.9%
San Joaquin	5,478	0.880	1.050	19.3%	0.953	1.020	7.0%
Santa Clara	5,942	0.921	1.024	11.2%	1.019	0.994	-2.5%
Kern	6,558	0.873	1.061	21.5%	0.997	1.001	0.4%
Riverside	7,366	0.760	1.071	41.0%	0.939	1.019	8.5%
Fresno	8,099	0.892	1.055	18.3%	1.080	0.959	-11.2%
Alameda	8,754	0.867	1.048	20.9%	1.033	0.988	-4.3%
San Bernardino	8,758	0.732	1.071	46.2%	0.934	1.018	9.0%
Los Angeles	43,050	0.758	1.062	40.2%	0.893	1.027	15.0%

Chart 5.0 Risk Score vs. Cost Differential by County
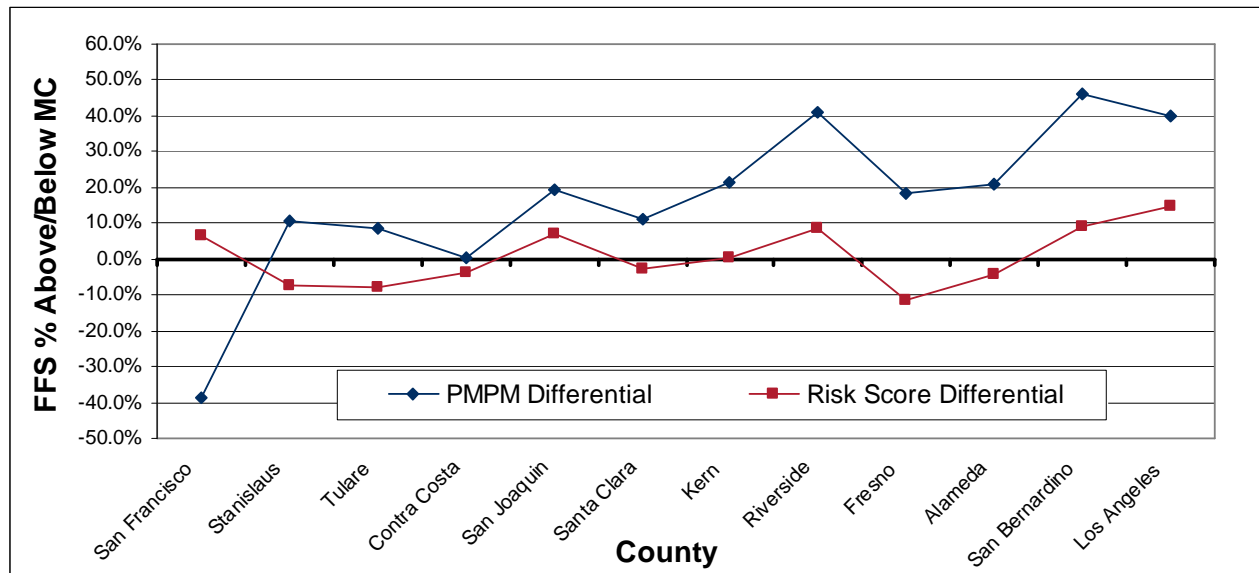
NOTE: Counties are shown in order of managed care enrollment (lowest to highest). Counties on the left of the graph are more likely to display volatility associated with small plan enrollment. Also note that the PMPMs used in the above analysis are net of Rx rebates and do not include LTC services.

Conclusions

Through the use of Medicaid Rx in evaluating the FFS and MC SPD populations within the Two-Plan counties, both populations appear to be serving members with similar disease conditions and general health acuity. The following are the highlights from the study:

- On a county by county basis, MC members have a higher disease burden in half of the Two-Plan counties, indicating that FFS is not universally serving members with a higher disease burden. MC penetration rates did not appear to be a strong indicator of MC or FFS population health acuity.

- Overall, members in the FFS program appear to have a moderately higher disease burden than the MC members. Both the FFS and MC programs have very similar disease conditions for their respective populations that are driving the overall health acuity within each program. It is important to note the overall population acuity relationship is reversed, meaning the MC program has overall higher health acuity, with the removal of Los Angeles County.
- The risk distribution (i.e., spread in individual acuity factors) was also very similar across both the FFS and MC programs. Members with the top 5% highest acuity (i.e., very sickest) had similar disease conditions and disease prevalence within both programs.
- The FFS program has a larger proportion of aged members (age >45) while the MC program has a larger proportion of younger members (age 0 to 14). The difference in member demographics between the two programs may be a contributor to the moderately higher overall disease burden observed in the FFS program.
- The actual cost reported for each program follow a similar pattern as the risk scores developed using Medicaid Rx. However, the large differential between Medicaid Rx results and actual costs indicates that there may be managed care savings opportunities within the Two-Plan model counties.

In preparing this study of the SPD populations, Mercer has used and relied upon enrollment, eligibility, claims, encounters, reimbursement level, benefit design and other information supplied by the State and its contracting health plans, who are responsible for its validity and completeness. We have reviewed the data and information for internal consistency and reasonableness, but we did not perform a formal audit. In our opinion the data are appropriate for the intended purpose.

The resulting risk scores are estimations of relative risk, and actual relative risk will likely differ from that projected. Mercer has provided this information to CHCF and DHCS to assist them in evaluating the relative risk and underlying risk characteristics of the Two-Plan model SPD populations. Use of the risk-adjustment results for any purpose beyond that stated use may not be appropriate, and Mercer expressly disclaims any responsibility for any such use.

Appendix A

Medicaid Rx Background

Medicaid Rx is a disease classification system developed by researchers from the University of California, San Diego (UCSD). This model uses pharmacy data to classify individuals into disease conditions. While many risk-adjustment models exist, the Medicaid Rx model was specifically designed for Medicaid programs such as Medi-Cal. Further, Medicaid Rx has a specific model that was developed to evaluate the risk for aged and disabled individuals.

The initial framework of the Medicaid Rx model was created specifically for the Medicaid population and is an update and expansion to the Chronic Disease Score model developed by the Group Health Cooperative of Puget Sound. Medicaid Rx was originally released in 2000 using data from California, Colorado, Georgia and Tennessee. The underlying data have been updated on two occasions since the model's inception and most recently uses FFS data from over 30 state Medicaid programs. The Medicaid Rx model framework was updated in 2008 by UCSD to account for changes in medical practice patterns over time and new pharmaceuticals that may have been introduced to the market place. The Medicaid Rx model is available to the public and can be downloaded at http://medicaidrx.ucsd.edu/.

California-Specific Medicaid Rx Model

In the process of risk adjusting the Contract Year 2009/2010 Medi-Cal capitation payments, the State and Mercer worked with the model developers at UCSD to develop a California-specific version of the Medicaid Rx model. While the framework utilized to classify pharmacy claims into disease categories remains unchanged, the weights within the model were adjusted to match the covered benefits within the Medi-Cal managed care program. Mercer used the California-specific model throughout this study in order to interpret the results in the context of SPD individuals within a managed care environment that was specific to the Medi-Cal program (rather than using the generic model weights built from national data).

The Medicaid Rx model offers two methods for assessing health risk. The first approach is referred to as the "prospective method," which measures existing conditions and their ability to predict future health care costs. The second approach is referred to as the "concurrent method," which measures existing conditions and their ability to measure existing risk. Since the California-specific model was developed on a prospective basis, the prospective approach was also used for this study. The national concurrent model was also applied for reasonableness and yielded consistent results when compared with the California-specific model results.

A cost weight is the value relative to the average (1.0) assigned to each disease condition within the Medicaid Rx model. Disease conditions that require more medical resources will have a higher cost weight assigned. The California-specific cost weights can be found in Appendix B.

Appendix B – Two-Plan Prospective Weights
California-Specific Model

Medicaid Rx Code	Medicaid Rx Description	Aged and Disabled Medi-Cal Only
a_under1	age<=1	1.605
a_1_4	1<age<5	0.921
a_5_14m	5<age<15 male	0.496
a_5_14f	5<age<15 female	0.706
a_15_24m	15<=age<25 male	0.232
a_15_24f	15<=age<25 female	0.261
a_25_44m	25<=age<45 male	0.213
a_25_44f	25<=age<45 female	0.066
a_45_64m	45<=age<65 male	0.269
a_45_64f	45<=age<65 female	0.079
a_65	65<=age	0.164
MRX1	Alcoholism	0.189
MRX2	Alzheimers	N/A
MRX3	Anti-coagulants	1.885
MRX4	Asthma/COPD	0.376
MRX5	Attention Deficit	N/A
MRX6	Burns	0.170
MRX7	Cardiac	0.299
MRX8	Cystic Fibrosis	0.773
MRX9	Depression / Anxiety	0.091
MRX10	Diabetes	0.477
MRX11	EENT	N/A
MRX12	ESRD / Renal	5.296
MRX13	Folate Deficiency	0.726
MRX14	CMV Retinitis	0.992
MRX15	Gastric Acid Disorder	0.367
MRX16	Glaucoma	0.239
MRX17	Gout	N/A
MRX18	Growth Hormone	2.921
MRX19	Hemophilia/von Willebrands	26.452
MRX20	Hepatitis	0.990
MRX21	Herpes	0.146
MRX22	HIV	N/A
MRX23	Hyperlipidemia	N/A
MRX24	Infections, high	6.478
MRX25	Infections, medium	0.322
MRX26	Infections, low	N/A
MRX27	Inflammatory /Autoimmune	0.375
MRX28	Insomnia	0.223
MRX29	Iron Deficiency	0.281
MRX30	Irrigating solution	2.515
MRX31	Liver Disease	1.670
MRX32	Malignancies	1.079
MRX33	Multiple Sclerosis / Paralysis	0.763
MRX34	Nausea	0.137
MRX35	Neurogenic bladder	0.446
MRX36	Osteoporosis / Pagets	N/A
MRX37	Pain	0.167
MRX38	Parkinsons / Tremor	0.191
MRX39	Prenatal care	N/A
MRX40	Psychotic Illness / Bipolar	N/A
MRX41	Replacement solution	0.311
MRX42	Seizure disorders	0.600
MRX43	Thyroid Disorder	0.126
MRX44	Transplant	N/A
MRX45	Tuberculosis	0.565

NOTE: Disease categories with "N/A" values represent conditions that were found to be statistically insignificant or services that are non-covered benefits in the managed care program.

Appendix C – Disease Prevalence Reports

Background

Recognizing that the Medicaid Rx model has many components used to assess an individual's health risk and calculate overall FFS and MC risk scores, Mercer has provided information on each county's population and risk score calculation referred to as a prevalence report. Within the prevalence report, the following information can be found for each health plan and FFS SPD population within the Two-Plan counties.

- California-specific Medicaid Rx cost weights
- Count of scored members falling into each demographic category (11 categories)
- Disease Category Prevalence (45 categories)
- Count of all "scored" members (6+ months of eligibility in CY08)
- Calculation of unadjusted and normalized risk scores

Medicaid Rx Category Distribution

Within the prevalence reports, the FFS and health plan populations are classified into a total of 56 categories based on the components described above. Especially for the disabled group, not all disease conditions are applicable due to low observations or low predictive value. The following table is a sample of the data contained in a County's prevalence report found in Appendix C.

XYZ County – Two-Plan SPD Example

Disease Category	(A) Medicaid Rx Cost Weight	(B) Disease Impact Rank	(C) Number of Recipients	(D) Percent of Total Recipients
Age Subtotal	N/A	N/A	1,750	100.00%
Seizure Disorder	0.600	1	360	20.57%
Gastric Disorder	0.367	5	350	20.00%
Pain	0.167	8	750	43.00%
Anti Coagulants	1.885	9	22	1.26%

The Medicaid Rx cost weights (Column A) were developed by UCSD and were adjusted to use Medi-Cal data and represent services covered under the managed care program. Using the sample data provided above, the Medicaid Rx Seizure Disorder category receives a cost weight (or relative health risk factor) of 0.600. This means that an individual who falls into the Seizure Disorder category is estimated to cost approximately 0.600 times the average cost of an SPD member within the Medi-Cal population used to derive the cost weights. However, this specific cost weight value does not represent an individual's total relative acuity factor. That is because it does not take into account any demographic or possible additional disease information this individual might have. Each scored individual receives a demographic relative cost weight and can have multiple disease categories assigned depending on that individual's health status. For each member, all of the disease category cost weights assigned are combined (added) along with their demographic information to calculate a total individual acuity factor.

The prevalence reports also provide the recipient counts attributable to each disease condition. Column C shows that XYZ County had 360 recipients flagged with Seizure Disorder. To assess the portion of the XYZ population that presents with this condition, the 360 recipients flagged with Seizure Disorder are divided by the total XYZ scored members of 1,750. This calculation results in a value of 20.57 percent, which is provided in Column D.

Disease Impact Rank

To better understand the significance of specific disease conditions in the risk adjustment process, the prevalence reports include the Disease Impact Rank (Column B) associated with each disease category. The magnitude of the Medicaid Rx category weight, in conjunction with the portion of the population flagged with the disease condition, will determine the impact that a particular disease category will have on the development of the overall plan factors (i.e., plan risk scores). The lower the disease impact rank value, the greater that category's impact is on the overall plan factor. For example, a value of one (1) equals the greatest disease condition impact on each population's overall risk score. Conversely, the larger the disease impact rank value, the less impact the disease condition is on the overall plan factor (45 equals the least possible impact). The Disease Impact Rank (Column B) is a quick resource for determining the disease category's impact on the population's overall health risk. In the case where several conditions aren't included in the analysis due to low observations or were not found to be statistically significant, the ranking may show the same impact rank for the conditions, and may be less than 45.

Using the sample in Table 1, the Seizure Disorder category has a disease impact rank of one. Even though this category has a significantly lower cost weight than the Anti-Coagulant category, 20.60 percent of the overall population has been classified in the Seizure Disorder category. Taking into consideration both cost weight and overall population prevalence, the Seizure Disorder category has the greatest influence on the overall risk adjustment results in this example.

Risk Adjustment Results

In the basic risk adjustment application scenario, the prevalence reports include the recipient counts associated with the MC health plans and FFS. The prevalence reports also include the unadjusted plan factor results, which can be reproduced within this report, by calculating a weighted average of the cost weights and the MC/FFS observation counts (weighted on total scored members). The prevalence reports also contain the normalized risk score calculated for the MC health plans and FFS. At the bottom of each prevalence report is a section that presents the components used to derive the unadjusted and normalized risk scores.

XYZ Population

Risk adjustment Results	Risk Score
Recipients	
Total Scored Recipients	1,750
Plan Factor	
Unadjusted Plan Factor	0.932
County-Wide Unadjusted Risk Score	0.913
Normalized Risk Score	1.021

The total County-Wide Unadjusted Risk Score is derived by using a weighted average of the unadjusted or "raw" scores for the combined health plan and FFS programs within a county. Each program's scores are then normalized by dividing each MC/FFS score by the county-wide weighted average. The values presented in the Table above indicate that XYZ population (i.e., MC or FFS) has an approximately 2% higher anticipated health risk, as measured by Medicaid Rx, than the county average population, as indicated by the 1.021 normalized risk score.

Alameda County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	21	0.2%	n/a	43	0.2%
Age 1 to 4	0.921	n/a	327	3.8%	n/a	247	1.1%
Age 5 to 14 Male	0.496	n/a	1,047	12.1%	n/a	693	3.1%
Age 5 to 14 Female	0.706	n/a	443	5.1%	n/a	346	1.5%
Age 15 to 24 Male	0.232	n/a	856	9.9%	n/a	1,350	6.0%
Age 15 to 24 Female	0.261	n/a	570	6.6%	n/a	835	3.7%
Age 25 to 44 Male	0.213	n/a	448	5.2%	n/a	2,383	10.7%
Age 25 to 44 Female	0.066	n/a	993	11.5%	n/a	1,774	7.9%
Age 45 to 64 Male	0.269	n/a	775	8.9%	n/a	4,942	22.1%
Age 45 to 64 Female	0.079	n/a	2,106	24.3%	n/a	5,198	23.3%
Age 65+ Male and Female	0.164	n/a	1,084	12.5%	n/a	4,545	20.3%
Age Subtotal		n/a	8,670	100.0%	n/a	22,356	100.0%
Disease Categories							
Alcoholism	0.189	34	3	0.0%	34	14	0.1%
Alzheimers	0.000	35	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	11	147	1.7%	9	468	2.1%
Asthma / COPD	0.376	2	1,981	22.8%	6	3,600	16.1%
Attention Deficit	0.000	35	0	0.0%	35	0	0.0%
Burns	0.170	32	58	0.7%	32	145	0.6%
Cardiac	0.299	1	2,900	33.4%	1	8,587	38.4%
Cystic Fibrosis	0.773	27	36	0.4%	28	111	0.5%
Depression / Anxiety	0.091	13	1,799	20.7%	17	3,628	16.2%
Diabetes	0.477	8	1,085	12.5%	5	3,122	14.0%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	5	118	1.4%	2	398	1.8%
Folate Deficiency	0.726	17	143	1.6%	13	554	2.5%
CMV Retinitis	0.992	33	3	0.0%	31	32	0.1%
Gastric Acid Disorder	0.367	4	1,900	21.9%	4	4,863	21.8%
Glaucoma	0.239	24	173	2.0%	24	548	2.5%
Gout	0.000	35	0	0.0%	35	0	0.0%
Growth Hormone	2.921	29	8	0.1%	33	7	0.0%
Hemophilia / von Willebrand's	26.452	28	1	0.0%	27	4	0.0%
Hepatitis	0.990	31	15	0.2%	29	83	0.4%
Herpes	0.146	30	144	1.7%	30	315	1.4%
HIV	0.000	35	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	35	0	0.0%
Infections, High	6.478	18	14	0.2%	15	55	0.2%
Infections, Medium	0.322	7	1,615	18.6%	7	3,804	17.0%
Infections, Low	0.000	35	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	752	8.7%	12	1,462	6.5%
Insomnia	0.223	15	622	7.2%	14	1,743	7.8%
Iron Deficiency	0.281	16	446	5.1%	19	948	4.2%
Irrigating Solution	2.515	25	15	0.2%	18	106	0.5%
Liver Disease	1.670	22	27	0.3%	23	80	0.4%
Malignancies	1.079	14	136	1.6%	16	313	1.4%
Multiple Sclerosis / Paralysis	0.763	6	778	9.0%	10	963	4.3%
Nausea	0.137	19	572	6.6%	22	1,378	6.2%
Neurogenic Bladder	0.446	20	144	1.7%	21	439	2.0%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	35	0	0.0%
Pain	0.167	9	2,878	33.2%	8	7,053	31.5%
Parkinsons / Tremor	0.191	23	226	2.6%	20	1,080	4.8%
Prenatal Care	0.000	35	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	35	0	0.0%
Replacement Solution	0.311	12	754	8.7%	11	1,819	8.1%
Seizure Disorders	0.600	3	1,180	13.6%	3	3,399	15.2%
Thyroid Disorder	0.126	21	418	4.8%	25	977	4.4%
Transplant	0.000	35	0	0.0%	35	0	0.0%
Tuberculosis	0.565	26	64	0.7%	26	207	0.9%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		8,670			22,356		31,026
Unadjusted Risk Score		1.161			1.111		1.125
Normalized Risk Score		**1.032**			**0.988**		**1.000**

Contra Costa County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	10	0.2%	n/a	18	0.2%
Age 1 to 4	0.921	n/a	183	4.2%	n/a	120	1.1%
Age 5 to 14 Male	0.496	n/a	565	13.0%	n/a	448	3.9%
Age 5 to 14 Female	0.706	n/a	294	6.7%	n/a	241	2.1%
Age 15 to 24 Male	0.232	n/a	436	10.0%	n/a	961	8.5%
Age 15 to 24 Female	0.261	n/a	338	7.8%	n/a	592	5.2%
Age 25 to 44 Male	0.213	n/a	228	5.2%	n/a	1,254	11.0%
Age 25 to 44 Female	0.066	n/a	636	14.6%	n/a	1,002	8.8%
Age 45 to 64 Male	0.269	n/a	319	7.3%	n/a	2,117	18.6%
Age 45 to 64 Female	0.079	n/a	980	22.5%	n/a	2,498	22.0%
Age 65+ Male and Female	0.164	n/a	370	8.5%	n/a	2,115	18.6%
Age Subtotal		n/a	4,359	100.0%	n/a	11,366	100.0%
Disease Categories							
Alcoholism	0.189	34	1	0.0%	34	11	0.1%
Alzheimers	0.000	35	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	11	73	1.7%	9	289	2.5%
Asthma / COPD	0.376	3	994	22.8%	6	1,916	16.9%
Attention Deficit	0.000	35	0	0.0%	35	0	0.0%
Burns	0.170	32	26	0.6%	31	113	1.0%
Cardiac	0.299	2	1,262	29.0%	1	4,307	37.9%
Cystic Fibrosis	0.773	30	12	0.3%	28	42	0.4%
Depression / Anxiety	0.091	13	911	20.9%	14	2,246	19.8%
Diabetes	0.477	9	439	10.1%	5	1,595	14.0%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	1	76	1.7%	3	174	1.5%
Folate Deficiency	0.726	17	76	1.7%	13	295	2.6%
CMV Retinitis	0.992	33	3	0.1%	33	9	0.1%
Gastric Acid Disorder	0.367	6	772	17.7%	4	2,231	19.6%
Glaucoma	0.239	28	48	1.1%	24	283	2.5%
Gout	0.000	35	0	0.0%	35	0	0.0%
Growth Hormone	2.921	23	9	0.2%	32	4	0.0%
Hemophilia / von Willebrand's	26.452	22	1	0.0%	26	2	0.0%
Hepatitis	0.990	31	9	0.2%	27	38	0.3%
Herpes	0.146	29	75	1.7%	30	175	1.5%
HIV	0.000	35	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	35	0	0.0%
Infections, High	6.478	14	11	0.3%	16	28	0.2%
Infections, Medium	0.322	8	665	15.3%	8	1,755	15.4%
Infections, Low	0.000	35	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	384	8.8%	11	785	6.9%
Insomnia	0.223	16	258	5.9%	17	742	6.5%
Iron Deficiency	0.281	18	168	3.9%	18	463	4.1%
Irrigating Solution	2.515	26	7	0.2%	20	41	0.4%
Liver Disease	1.670	21	17	0.4%	23	52	0.5%
Malignancies	1.079	15	60	1.4%	15	171	1.5%
Multiple Sclerosis / Paralysis	0.763	5	424	9.7%	10	505	4.4%
Nausea	0.137	19	283	6.5%	22	662	5.8%
Neurogenic Bladder	0.446	20	82	1.9%	19	264	2.3%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	35	0	0.0%
Pain	0.167	7	1,466	33.6%	7	3,758	33.1%
Parkinsons / Tremor	0.191	24	125	2.9%	21	532	4.7%
Prenatal Care	0.000	35	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	35	0	0.0%
Replacement Solution	0.311	12	357	8.2%	12	829	7.3%
Seizure Disorders	0.600	4	580	13.3%	2	1,781	15.7%
Thyroid Disorder	0.126	25	171	3.9%	25	513	4.5%
Transplant	0.000	35	0	0.0%	35	0	0.0%
Tuberculosis	0.565	27	22	0.5%	29	57	0.5%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		4,359			11,366		15,725
Unadjusted Risk Score		1.148			1.104		1.116
Normalized Risk Score		**1.029**			**0.989**		**1.000**

Fresno County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	39	0.5%	n/a	25	0.2%
Age 1 to 4	0.921	n/a	481	6.0%	n/a	279	1.8%
Age 5 to 14 Male	0.496	n/a	1,220	15.1%	n/a	747	5.0%
Age 5 to 14 Female	0.706	n/a	573	7.1%	n/a	439	2.9%
Age 15 to 24 Male	0.232	n/a	700	8.7%	n/a	1,125	7.5%
Age 15 to 24 Female	0.261	n/a	492	6.1%	n/a	708	4.7%
Age 25 to 44 Male	0.213	n/a	386	4.8%	n/a	1,712	11.3%
Age 25 to 44 Female	0.066	n/a	914	11.3%	n/a	1,517	10.1%
Age 45 to 64 Male	0.269	n/a	871	10.8%	n/a	2,897	19.2%
Age 45 to 64 Female	0.079	n/a	2,011	25.0%	n/a	3,940	26.1%
Age 65+ Male and Female	0.164	n/a	373	4.6%	n/a	1,700	11.3%
Age Subtotal		n/a	8,060	100.0%	n/a	15,089	100.0%
Disease Categories							
Alcoholism	0.189	34	3	0.0%	34	8	0.1%
Alzheimers	0.000	35	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	12	128	1.6%	10	275	1.8%
Asthma / COPD	0.376	1	2,497	31.0%	4	3,364	22.3%
Attention Deficit	0.000	35	0	0.0%	35	0	0.0%
Burns	0.170	33	76	0.9%	32	106	0.7%
Cardiac	0.299	5	2,575	31.9%	1	5,727	38.0%
Cystic Fibrosis	0.773	31	21	0.3%	30	42	0.3%
Depression / Anxiety	0.091	14	1,679	20.8%	15	3,098	20.5%
Diabetes	0.477	8	1,245	15.4%	5	2,628	17.4%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	6	132	1.6%	6	234	1.6%
Folate Deficiency	0.726	18	190	2.4%	18	338	2.2%
CMV Retinitis	0.992	32	14	0.2%	33	14	0.1%
Gastric Acid Disorder	0.367	3	2,201	27.3%	3	4,335	28.7%
Glaucoma	0.239	30	77	1.0%	28	219	1.5%
Gout	0.000	35	0	0.0%	35	0	0.0%
Growth Hormone	2.921	26	12	0.1%	31	11	0.1%
Hemophilia / von Willebrand's	26.452	22	4	0.0%	16	10	0.1%
Hepatitis	0.990	29	19	0.2%	27	53	0.4%
Herpes	0.146	25	242	3.0%	29	268	1.8%
HIV	0.000	35	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	35	0	0.0%
Infections, High	6.478	15	23	0.3%	13	52	0.3%
Infections, Medium	0.322	7	2,043	25.3%	7	3,345	22.2%
Infections, Low	0.000	35	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	790	9.8%	11	1,214	8.0%
Insomnia	0.223	17	653	8.1%	14	1,295	8.6%
Iron Deficiency	0.281	13	659	8.2%	17	877	5.8%
Irrigating Solution	2.515	28	11	0.1%	23	66	0.4%
Liver Disease	1.670	19	77	1.0%	22	106	0.7%
Malignancies	1.079	16	136	1.7%	19	207	1.4%
Multiple Sclerosis / Paralysis	0.763	4	1,028	12.8%	9	824	5.5%
Nausea	0.137	20	906	11.2%	20	1,586	10.5%
Neurogenic Bladder	0.446	21	240	3.0%	21	407	2.7%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	35	0	0.0%
Pain	0.167	9	3,162	39.2%	8	5,512	36.5%
Parkinsons / Tremor	0.191	27	173	2.1%	24	657	4.4%
Prenatal Care	0.000	35	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	35	0	0.0%
Replacement Solution	0.311	11	928	11.5%	12	1,406	9.3%
Seizure Disorders	0.600	2	1,429	17.7%	2	2,797	18.5%
Thyroid Disorder	0.126	23	419	5.2%	25	848	5.6%
Transplant	0.000	35	0	0.0%	35	0	0.0%
Tuberculosis	0.565	24	88	1.1%	26	155	1.0%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		8,060			15,089		23,149
Unadjusted Risk Score		1.435			1.274		1.330
Normalized Risk Score		**1.079**			**0.958**		**1.000**

Kern County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	17	0.3%	n/a	17	0.1%
Age 1 to 4	0.921	n/a	346	5.3%	n/a	246	1.9%
Age 5 to 14 Male	0.496	n/a	923	14.1%	n/a	688	5.4%
Age 5 to 14 Female	0.706	n/a	488	7.5%	n/a	372	2.9%
Age 15 to 24 Male	0.232	n/a	718	11.0%	n/a	1,217	9.5%
Age 15 to 24 Female	0.261	n/a	584	9.0%	n/a	778	6.1%
Age 25 to 44 Male	0.213	n/a	352	5.4%	n/a	1,652	12.9%
Age 25 to 44 Female	0.066	n/a	946	14.5%	n/a	1,555	12.2%
Age 45 to 64 Male	0.269	n/a	534	8.2%	n/a	2,392	18.7%
Age 45 to 64 Female	0.079	n/a	1,431	21.9%	n/a	3,105	24.3%
Age 65+ Male and Female	0.164	n/a	185	2.8%	n/a	760	5.9%
Age Subtotal		n/a	6,524	100.0%	n/a	12,782	100.0%
Disease Categories							
Alcoholism	0.189	33	3	0.0%	34	6	0.0%
Alzheimers	0.000	34	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	11	115	1.8%	10	277	2.2%
Asthma / COPD	0.376	3	1,662	25.5%	4	2,824	22.1%
Attention Deficit	0.000	34	0	0.0%	35	0	0.0%
Burns	0.170	30	58	0.9%	32	92	0.7%
Cardiac	0.299	4	1,818	27.9%	2	4,258	33.3%
Cystic Fibrosis	0.773	26	33	0.5%	29	62	0.5%
Depression / Anxiety	0.091	14	1,314	20.1%	16	2,319	18.1%
Diabetes	0.477	7	799	12.2%	6	1,746	13.7%
Ears, Eyes, Nose, and Throat (EENT)	0.000	34	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	10	43	0.7%	9	145	1.1%
Folate Deficiency	0.726	15	158	2.4%	18	260	2.0%
CMV Retinitis	0.992	31	6	0.1%	33	7	0.1%
Gastric Acid Disorder	0.367	8	918	14.1%	3	3,129	24.5%
Glaucoma	0.239	29	60	0.9%	28	206	1.6%
Gout	0.000	34	0	0.0%	35	0	0.0%
Growth Hormone	2.921	27	7	0.1%	31	7	0.1%
Hemophilia / von Willebrand's	26.452	34	0	0.0%	26	3	0.0%
Hepatitis	0.990	32	5	0.1%	27	63	0.5%
Herpes	0.146	28	125	1.9%	30	189	1.5%
HIV	0.000	34	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	34	0	0.0%	35	0	0.0%
Infections, High	6.478	19	11	0.2%	11	56	0.4%
Infections, Medium	0.322	5	1,585	24.3%	5	3,071	24.0%
Infections, Low	0.000	34	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	9	696	10.7%	12	958	7.5%
Insomnia	0.223	16	506	7.8%	14	1,219	9.5%
Iron Deficiency	0.281	23	130	2.0%	20	533	4.2%
Irrigating Solution	2.515	24	14	0.2%	15	91	0.7%
Liver Disease	1.670	18	45	0.7%	24	58	0.5%
Malignancies	1.079	12	141	2.2%	17	190	1.5%
Multiple Sclerosis / Paralysis	0.763	1	1,018	15.6%	7	1,036	8.1%
Nausea	0.137	17	608	9.3%	19	1,131	8.8%
Neurogenic Bladder	0.446	20	140	2.1%	21	335	2.6%
Disease Categories							
Osteoporosis / Paget's	0.000	34	0	0.0%	35	0	0.0%
Pain	0.167	6	2,426	37.2%	8	4,666	36.5%
Parkinsons / Tremor	0.191	25	144	2.2%	22	608	4.8%
Prenatal Care	0.000	34	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	34	0	0.0%	35	0	0.0%
Replacement Solution	0.311	13	432	6.6%	13	1,113	8.7%
Seizure Disorders	0.600	2	1,134	17.4%	1	2,603	20.4%
Thyroid Disorder	0.126	21	380	5.8%	23	795	6.2%
Transplant	0.000	34	0	0.0%	35	0	0.0%
Tuberculosis	0.565	22	66	1.0%	25	148	1.2%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		6,524			12,782		19,306
Unadjusted Risk Score		1.236			1.242		1.240
Normalized Risk Score		**0.997**			**1.001**		**1.000**

Los Angeles County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	169	0.4%	n/a	210	0.1%
Age 1 to 4	0.921	n/a	2,839	6.6%	n/a	2,733	1.7%
Age 5 to 14 Male	0.496	n/a	8,325	19.5%	n/a	7,859	4.8%
Age 5 to 14 Female	0.706	n/a	3,643	8.5%	n/a	4,152	2.5%
Age 15 to 24 Male	0.232	n/a	4,950	11.6%	n/a	10,141	6.2%
Age 15 to 24 Female	0.261	n/a	3,020	7.1%	n/a	6,224	3.8%
Age 25 to 44 Male	0.213	n/a	1,910	4.5%	n/a	16,317	10.0%
Age 25 to 44 Female	0.066	n/a	3,778	8.8%	n/a	11,927	7.3%
Age 45 to 64 Male	0.269	n/a	3,395	7.9%	n/a	33,957	20.8%
Age 45 to 64 Female	0.079	n/a	8,499	19.9%	n/a	40,978	25.1%
Age 65+ Male and Female	0.164	n/a	2,260	5.3%	n/a	29,033	17.8%
Age Subtotal		n/a	42,788	100.0%	n/a	163,531	100.0%
Disease Categories							
Alcoholism	0.189	34	13	0.0%	34	63	0.0%
Alzheimers	0.000	35	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	12	569	1.3%	8	4,314	2.6%
Asthma / COPD	0.376	2	8,702	20.3%	7	27,874	17.0%
Attention Deficit	0.000	35	0	0.0%	35	0	0.0%
Burns	0.170	31	311	0.7%	32	1,839	1.1%
Cardiac	0.299	3	10,657	24.9%	1	64,979	39.7%
Cystic Fibrosis	0.773	28	152	0.4%	23	2,187	1.3%
Depression / Anxiety	0.091	17	6,336	14.8%	18	27,975	17.1%
Diabetes	0.477	7	4,644	10.9%	6	25,818	15.8%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	8	359	0.8%	3	3,162	1.9%
Folate Deficiency	0.726	15	973	2.3%	11	7,114	4.4%
CMV Retinitis	0.992	33	32	0.1%	33	255	0.2%
Gastric Acid Disorder	0.367	6	7,168	16.8%	4	45,129	27.6%
Glaucoma	0.239	27	539	1.3%	26	4,768	2.9%
Gout	0.000	35	0	0.0%	35	0	0.0%
Growth Hormone	2.921	26	48	0.1%	30	153	0.1%
Hemophilia / von Willebrand's	26.452	14	27	0.1%	24	47	0.0%
Hepatitis	0.990	32	52	0.1%	28	535	0.3%
Herpes	0.146	30	656	1.5%	31	2,759	1.7%
HIV	0.000	35	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	35	0	0.0%
Infections, High	6.478	19	73	0.2%	13	695	0.4%
Infections, Medium	0.322	5	8,317	19.4%	5	40,169	24.6%
Infections, Low	0.000	35	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	4,003	9.4%	14	11,878	7.3%
Insomnia	0.223	18	2,409	5.6%	15	19,973	12.2%
Iron Deficiency	0.281	16	2,253	5.3%	19	8,479	5.2%
Irrigating Solution	2.515	25	67	0.2%	17	1,142	0.7%
Liver Disease	1.670	23	120	0.3%	27	495	0.3%
Malignancies	1.079	13	777	1.8%	16	3,263	2.0%
Multiple Sclerosis / Paralysis	0.763	4	3,521	8.2%	12	6,272	3.8%
Nausea	0.137	20	3,112	7.3%	21	15,923	9.7%
Neurogenic Bladder	0.446	21	733	1.7%	20	5,201	3.2%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	35	0	0.0%
Pain	0.167	9	10,431	24.4%	9	42,632	26.1%
Parkinsons / Tremor	0.191	24	1,028	2.4%	22	9,379	5.7%
Prenatal Care	0.000	35	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	35	0	0.0%
Replacement Solution	0.311	11	3,937	9.2%	10	21,648	13.2%
Seizure Disorders	0.600	1	5,673	13.3%	2	29,308	17.9%
Thyroid Disorder	0.126	22	1,682	3.9%	25	9,232	5.6%
Transplant	0.000	35	0	0.0%	35	0	0.0%
Tuberculosis	0.565	29	175	0.4%	29	817	0.5%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		42,788			163,531		206,319
Unadjusted Risk Score		1.131			1.300		1.265
Normalized Risk Score		**0.894**			**1.028**		**1.000**

Riverside County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	44	0.6%	n/a	35	0.2%
Age 1 to 4	0.921	n/a	533	7.3%	n/a	525	2.3%
Age 5 to 14 Male	0.496	n/a	1,199	16.4%	n/a	1,590	7.1%
Age 5 to 14 Female	0.706	n/a	546	7.5%	n/a	893	4.0%
Age 15 to 24 Male	0.232	n/a	804	11.0%	n/a	2,176	9.7%
Age 15 to 24 Female	0.261	n/a	503	6.9%	n/a	1,455	6.5%
Age 25 to 44 Male	0.213	n/a	400	5.5%	n/a	2,531	11.3%
Age 25 to 44 Female	0.066	n/a	823	11.3%	n/a	2,198	9.8%
Age 45 to 64 Male	0.269	n/a	630	8.6%	n/a	3,815	17.0%
Age 45 to 64 Female	0.079	n/a	1,515	20.7%	n/a	5,158	23.0%
Age 65+ Male and Female	0.164	n/a	312	4.3%	n/a	2,017	9.0%
Age Subtotal		n/a	7,309	100.0%	n/a	22,393	100.0%
Disease Categories							
Alcoholism	0.189	33	1	0.0%	34	19	0.1%
Alzheimers	0.000	34	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	11	134	1.8%	8	674	3.0%
Asthma / COPD	0.376	4	1,467	20.1%	6	4,057	18.1%
Attention Deficit	0.000	34	0	0.0%	35	0	0.0%
Burns	0.170	31	55	0.8%	33	205	0.9%
Cardiac	0.299	2	1,978	27.1%	2	7,812	34.9%
Cystic Fibrosis	0.773	30	14	0.2%	27	125	0.6%
Depression / Anxiety	0.091	15	1,291	17.7%	17	3,782	16.9%
Diabetes	0.477	6	913	12.5%	5	3,338	14.9%
Ears, Eyes, Nose, and Throat (EENT)	0.000	34	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	9	66	0.9%	4	353	1.6%
Folate Deficiency	0.726	17	119	1.6%	14	665	3.0%
CMV Retinitis	0.992	32	4	0.1%	32	43	0.2%
Gastric Acid Disorder	0.367	5	1,364	18.7%	3	5,217	23.3%
Glaucoma	0.239	26	97	1.3%	28	395	1.8%
Gout	0.000	34	0	0.0%	35	0	0.0%
Growth Hormone	2.921	23	16	0.2%	26	46	0.2%
Hemophilia / von Willebrand's	26.452	34	0	0.0%	23	7	0.0%
Hepatitis	0.990	29	12	0.2%	29	74	0.3%
Herpes	0.146	27	109	1.5%	31	345	1.5%
HIV	0.000	34	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	34	0	0.0%	35	0	0.0%
Infections, High	6.478	13	20	0.3%	11	155	0.7%
Infections, Medium	0.322	8	1,094	15.0%	7	4,458	19.9%
Infections, Low	0.000	34	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	727	9.9%	12	1,889	8.4%
Insomnia	0.223	16	478	6.5%	15	2,070	9.2%
Iron Deficiency	0.281	18	285	3.9%	19	1,053	4.7%
Irrigating Solution	2.515	24	17	0.2%	18	125	0.6%
Liver Disease	1.670	21	30	0.4%	25	85	0.4%
Malignancies	1.079	14	120	1.6%	16	386	1.7%
Multiple Sclerosis / Paralysis	0.763	3	735	10.1%	10	1,442	6.4%
Nausea	0.137	20	529	7.2%	21	1,791	8.0%
Neurogenic Bladder	0.446	19	172	2.4%	20	557	2.5%
Disease Categories							
Osteoporosis / Paget's	0.000	34	0	0.0%	35	0	0.0%
Pain	0.167	7	2,259	30.9%	9	6,993	31.2%
Parkinsons / Tremor	0.191	25	205	2.8%	22	1,251	5.6%
Prenatal Care	0.000	34	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	34	0	0.0%	35	0	0.0%
Replacement Solution	0.311	12	494	6.8%	13	1,657	7.4%
Seizure Disorders	0.600	1	1,284	17.6%	1	4,626	20.7%
Thyroid Disorder	0.126	22	371	5.1%	24	1,385	6.2%
Transplant	0.000	34	0	0.0%	35	0	0.0%
Tuberculosis	0.565	28	24	0.3%	30	120	0.5%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		7,309			22,393		29,702
Unadjusted Risk Score		1.179			1.280		1.255
Normalized Risk Score		**0.940**			**1.020**		**1.000**

San Bernardino County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	37	0.4%	n/a	66	0.2%
Age 1 to 4	0.921	n/a	697	8.0%	n/a	706	2.3%
Age 5 to 14 Male	0.496	n/a	1,513	17.4%	n/a	2,320	7.5%
Age 5 to 14 Female	0.706	n/a	733	8.4%	n/a	1,266	4.1%
Age 15 to 24 Male	0.232	n/a	999	11.5%	n/a	3,092	10.0%
Age 15 to 24 Female	0.261	n/a	644	7.4%	n/a	1,919	6.2%
Age 25 to 44 Male	0.213	n/a	452	5.2%	n/a	3,405	11.1%
Age 25 to 44 Female	0.066	n/a	985	11.3%	n/a	3,283	10.7%
Age 45 to 64 Male	0.269	n/a	682	7.8%	n/a	5,246	17.0%
Age 45 to 64 Female	0.079	n/a	1,721	19.8%	n/a	6,968	22.6%
Age 65+ Male and Female	0.164	n/a	234	2.7%	n/a	2,511	8.2%
Age Subtotal		n/a	8,697	100.0%	n/a	30,782	100.0%
Disease Categories							
Alcoholism	0.189	34	3	0.0%	34	39	0.1%
Alzheimers	0.000	35	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	10	161	1.9%	10	833	2.7%
Asthma / COPD	0.376	2	1,918	22.1%	4	6,166	20.0%
Attention Deficit	0.000	35	0	0.0%	35	0	0.0%
Burns	0.170	31	72	0.8%	32	334	1.1%
Cardiac	0.299	3	2,338	26.9%	2	10,432	33.9%
Cystic Fibrosis	0.773	29	22	0.3%	26	193	0.6%
Depression / Anxiety	0.091	16	1,447	16.6%	17	5,409	17.6%
Diabetes	0.477	6	1,041	12.0%	7	4,242	13.8%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	11	56	0.6%	5	422	1.4%
Folate Deficiency	0.726	19	146	1.7%	15	827	2.7%
CMV Retinitis	0.992	33	8	0.1%	33	38	0.1%
Gastric Acid Disorder	0.367	5	1,521	17.5%	3	7,121	23.1%
Glaucoma	0.239	27	77	0.9%	28	500	1.6%
Gout	0.000	35	0	0.0%	35	0	0.0%
Growth Hormone	2.921	26	14	0.2%	27	44	0.1%
Hemophilia / von Willebrand's	26.452	15	5	0.1%	19	15	0.0%
Hepatitis	0.990	30	14	0.2%	29	77	0.3%
Herpes	0.146	28	126	1.4%	30	496	1.6%
HIV	0.000	35	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	35	0	0.0%
Infections, High	6.478	13	23	0.3%	11	190	0.6%
Infections, Medium	0.322	8	1,296	14.9%	6	6,851	22.3%
Infections, Low	0.000	35	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	9	975	11.2%	12	2,673	8.7%
Insomnia	0.223	17	547	6.3%	14	3,220	10.5%
Iron Deficiency	0.281	18	387	4.4%	21	1,240	4.0%
Irrigating Solution	2.515	23	22	0.3%	18	195	0.6%
Liver Disease	1.670	22	40	0.5%	25	101	0.3%
Malignancies	1.079	14	136	1.6%	16	533	1.7%
Multiple Sclerosis / Paralysis	0.763	4	881	10.1%	8	2,423	7.9%
Nausea	0.137	20	533	6.1%	23	2,372	7.7%
Neurogenic Bladder	0.446	21	163	1.9%	20	809	2.6%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	35	0	0.0%
Pain	0.167	7	2,532	29.1%	9	9,902	32.2%
Parkinsons / Tremor	0.191	25	242	2.8%	22	1,741	5.7%
Prenatal Care	0.000	35	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	35	0	0.0%
Replacement Solution	0.311	12	726	8.3%	13	2,784	9.0%
Seizure Disorders	0.600	1	1,360	15.6%	1	6,494	21.1%
Thyroid Disorder	0.126	24	387	4.4%	24	1,861	6.0%
Transplant	0.000	35	0	0.0%	35	0	0.0%
Tuberculosis	0.565	32	20	0.2%	31	118	0.4%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		8,697			30,782		39,479
Unadjusted Risk Score		1.182			1.289		1.265
Normalized Risk Score		**0.934**			**1.019**		**1.000**

Santa Clara County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	24	0.4%	n/a	36	0.2%
Age 1 to 4	0.921	n/a	296	5.1%	n/a	315	1.8%
Age 5 to 14 Male	0.496	n/a	600	10.3%	n/a	777	4.5%
Age 5 to 14 Female	0.706	n/a	275	4.7%	n/a	400	2.3%
Age 15 to 24 Male	0.232	n/a	413	7.1%	n/a	986	5.7%
Age 15 to 24 Female	0.261	n/a	250	4.3%	n/a	586	3.4%
Age 25 to 44 Male	0.213	n/a	235	4.0%	n/a	1,617	9.3%
Age 25 to 44 Female	0.066	n/a	448	7.7%	n/a	1,262	7.2%
Age 45 to 64 Male	0.269	n/a	467	8.0%	n/a	2,875	16.5%
Age 45 to 64 Female	0.079	n/a	1,045	17.9%	n/a	3,559	20.4%
Age 65+ Male and Female	0.164	n/a	1,773	30.4%	n/a	5,006	28.7%
Age Subtotal		n/a	5,826	100.0%	n/a	17,419	100.0%
Disease Categories							
Alcoholism	0.189	34	0	0.0%	34	3	0.0%
Alzheimers	0.000	34	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	11	96	1.6%	8	409	2.3%
Asthma / COPD	0.376	7	926	15.9%	7	2,288	13.1%
Attention Deficit	0.000	34	0	0.0%	35	0	0.0%
Burns	0.170	33	32	0.5%	33	114	0.7%
Cardiac	0.299	1	2,308	39.6%	1	6,987	40.1%
Cystic Fibrosis	0.773	27	35	0.6%	24	177	1.0%
Depression / Anxiety	0.091	14	1,080	18.5%	17	2,989	17.2%
Diabetes	0.477	4	885	15.2%	5	2,681	15.4%
Ears, Eyes, Nose, and Throat (EENT)	0.000	34	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	2	126	2.2%	2	353	2.0%
Folate Deficiency	0.726	15	109	1.9%	13	432	2.5%
CMV Retinitis	0.992	32	8	0.1%	31	30	0.2%
Gastric Acid Disorder	0.367	3	1,410	24.2%	4	4,208	24.2%
Glaucoma	0.239	23	152	2.6%	23	598	3.4%
Gout	0.000	34	0	0.0%	35	0	0.0%
Growth Hormone	2.921	30	8	0.1%	32	7	0.0%
Hemophilia / von Willebrand's	26.452	28	1	0.0%	28	3	0.0%
Hepatitis	0.990	25	33	0.6%	27	107	0.6%
Herpes	0.146	31	95	1.6%	30	205	1.2%
HIV	0.000	34	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	34	0	0.0%	35	0	0.0%
Infections, High	6.478	19	9	0.2%	16	44	0.3%
Infections, Medium	0.322	6	1,136	19.5%	6	3,064	17.6%
Infections, Low	0.000	34	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	12	452	7.8%	12	1,017	5.8%
Insomnia	0.223	18	275	4.7%	18	1,169	6.7%
Iron Deficiency	0.281	16	280	4.8%	22	568	3.3%
Irrigating Solution	2.515	21	22	0.4%	14	120	0.7%
Liver Disease	1.670	29	14	0.2%	29	32	0.2%
Malignancies	1.079	13	117	2.0%	15	265	1.5%
Multiple Sclerosis / Paralysis	0.763	8	323	5.5%	11	753	4.3%
Nausea	0.137	17	454	7.8%	20	1,214	7.0%
Neurogenic Bladder	0.446	20	130	2.2%	19	458	2.6%
Disease Categories							
Osteoporosis / Paget's	0.000	34	0	0.0%	35	0	0.0%
Pain	0.167	9	1,392	23.9%	10	3,833	22.0%
Parkinsons / Tremor	0.191	26	149	2.6%	21	857	4.9%
Prenatal Care	0.000	34	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	34	0	0.0%	35	0	0.0%
Replacement Solution	0.311	10	699	12.0%	9	2,472	14.2%
Seizure Disorders	0.600	5	691	11.9%	3	2,751	15.8%
Thyroid Disorder	0.126	22	314	5.4%	25	979	5.6%
Transplant	0.000	34	0	0.0%	35	0	0.0%
Tuberculosis	0.565	24	59	1.0%	26	199	1.1%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		5,826			17,419		23,245
Unadjusted Risk Score		1.200			1.170		1.178
Normalized Risk Score		**1.019**			**0.994**		**1.000**

San Francisco County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	6	0.2%	n/a	9	0.1%
Age 1 to 4	0.921	n/a	79	3.0%	n/a	76	0.5%
Age 5 to 14 Male	0.496	n/a	233	8.8%	n/a	250	1.5%
Age 5 to 14 Female	0.706	n/a	117	4.4%	n/a	137	0.8%
Age 15 to 24 Male	0.232	n/a	195	7.3%	n/a	433	2.6%
Age 15 to 24 Female	0.261	n/a	128	4.8%	n/a	279	1.7%
Age 25 to 44 Male	0.213	n/a	148	5.6%	n/a	2,009	12.2%
Age 25 to 44 Female	0.066	n/a	367	13.8%	n/a	1,135	6.9%
Age 45 to 64 Male	0.269	n/a	402	15.1%	n/a	5,552	33.8%
Age 45 to 64 Female	0.079	n/a	711	26.7%	n/a	3,955	24.1%
Age 65+ Male and Female	0.164	n/a	276	10.4%	n/a	2,607	15.9%
Age Subtotal		n/a	2,662	100.0%	n/a	16,442	100.0%
Disease Categories							
Alcoholism	0.189	32	2	0.1%	34	25	0.2%
Alzheimers	0.000	33	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	10	51	1.9%	9	476	2.9%
Asthma / COPD	0.376	5	467	17.5%	6	2,563	15.6%
Attention Deficit	0.000	33	0	0.0%	35	0	0.0%
Burns	0.170	31	9	0.3%	31	119	0.7%
Cardiac	0.299	2	853	32.0%	1	6,366	38.7%
Cystic Fibrosis	0.773	28	10	0.4%	24	143	0.9%
Depression / Anxiety	0.091	14	633	23.8%	15	3,589	21.8%
Diabetes	0.477	7	338	12.7%	5	2,037	12.4%
Ears, Eyes, Nose, and Throat (EENT)	0.000	33	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	1	57	2.1%	2	338	2.1%
Folate Deficiency	0.726	16	46	1.7%	13	537	3.3%
CMV Retinitis	0.992	30	3	0.1%	32	19	0.1%
Gastric Acid Disorder	0.367	4	506	19.0%	4	3,628	22.1%
Glaucoma	0.239	21	68	2.6%	26	395	2.4%
Gout	0.000	33	0	0.0%	35	0	0.0%
Growth Hormone	2.921	33	0	0.0%	33	5	0.0%
Hemophilia / von Willebrand's	26.452	33	0	0.0%	29	2	0.0%
Hepatitis	0.990	26	9	0.3%	25	99	0.6%
Herpes	0.146	27	60	2.3%	30	322	2.0%
HIV	0.000	33	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	33	0	0.0%	35	0	0.0%
Infections, High	6.478	20	3	0.1%	11	97	0.6%
Infections, Medium	0.322	9	373	14.0%	8	2,792	17.0%
Infections, Low	0.000	33	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	12	171	6.4%	14	922	5.6%
Insomnia	0.223	18	110	4.1%	17	1,197	7.3%
Iron Deficiency	0.281	17	104	3.9%	18	640	3.9%
Irrigating Solution	2.515	25	4	0.2%	23	47	0.3%
Liver Disease	1.670	15	27	1.0%	20	95	0.6%
Malignancies	1.079	13	56	2.1%	16	254	1.5%
Multiple Sclerosis / Paralysis	0.763	6	213	8.0%	10	905	5.5%
Nausea	0.137	19	170	6.4%	19	1,235	7.5%
Neurogenic Bladder	0.446	22	33	1.2%	21	353	2.1%
Disease Categories							
Osteoporosis / Paget's	0.000	33	0	0.0%	35	0	0.0%
Pain	0.167	8	828	31.1%	7	5,677	34.5%
Parkinsons / Tremor	0.191	24	67	2.5%	22	763	4.6%
Prenatal Care	0.000	33	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	33	0	0.0%	35	0	0.0%
Replacement Solution	0.311	11	302	11.3%	12	1,664	10.1%
Seizure Disorders	0.600	3	341	12.8%	3	2,770	16.8%
Thyroid Disorder	0.126	23	109	4.1%	27	735	4.5%
Transplant	0.000	33	0	0.0%	35	0	0.0%
Tuberculosis	0.565	29	11	0.4%	28	150	0.9%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		2,662			16,442		19,104
Unadjusted Risk Score		1.120			1.191		1.181
Normalized Risk Score		**0.948**			**1.008**		**1.000**

San Joaquin County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	28	0.5%	n/a	25	0.2%
Age 1 to 4	0.921	n/a	342	6.3%	n/a	214	1.7%
Age 5 to 14 Male	0.496	n/a	867	15.9%	n/a	620	5.0%
Age 5 to 14 Female	0.706	n/a	363	6.7%	n/a	275	2.2%
Age 15 to 24 Male	0.232	n/a	611	11.2%	n/a	907	7.3%
Age 15 to 24 Female	0.261	n/a	383	7.0%	n/a	581	4.7%
Age 25 to 44 Male	0.213	n/a	242	4.4%	n/a	1,395	11.2%
Age 25 to 44 Female	0.066	n/a	670	12.3%	n/a	1,200	9.7%
Age 45 to 64 Male	0.269	n/a	501	9.2%	n/a	2,384	19.2%
Age 45 to 64 Female	0.079	n/a	1,220	22.4%	n/a	3,401	27.4%
Age 65+ Male and Female	0.164	n/a	228	4.2%	n/a	1,410	11.4%
Age Subtotal		n/a	5,455	100.0%	n/a	12,412	100.0%
Disease Categories							
Alcoholism	0.189	34	3	0.1%	33	5	0.0%
Alzheimers	0.000	35	0	0.0%	34	0	0.0%
Anti-coagulants	1.885	12	57	1.0%	9	285	2.3%
Asthma / COPD	0.376	1	1,288	23.6%	6	2,649	21.3%
Attention Deficit	0.000	35	0	0.0%	34	0	0.0%
Burns	0.170	32	37	0.7%	31	96	0.8%
Cardiac	0.299	2	1,489	27.3%	1	4,783	38.5%
Cystic Fibrosis	0.773	29	14	0.3%	26	58	0.5%
Depression / Anxiety	0.091	13	1,106	20.3%	15	2,554	20.6%
Diabetes	0.477	8	629	11.5%	5	2,103	16.9%
Ears, Eyes, Nose, and Throat (EENT)	0.000	35	0	0.0%	34	0	0.0%
ESRD / Renal	5.296	9	48	0.9%	4	207	1.7%
Folate Deficiency	0.726	17	92	1.7%	14	346	2.8%
CMV Retinitis	0.992	33	6	0.1%	32	11	0.1%
Gastric Acid Disorder	0.367	4	1,070	19.6%	3	3,265	26.3%
Glaucoma	0.239	30	38	0.7%	27	181	1.5%
Gout	0.000	35	0	0.0%	34	0	0.0%
Growth Hormone	2.921	27	6	0.1%	28	10	0.1%
Hemophilia / von Willebrand's	26.452	23	1	0.0%	34	0	0.0%
Hepatitis	0.990	31	9	0.2%	30	26	0.2%
Herpes	0.146	28	91	1.7%	29	177	1.4%
HIV	0.000	35	0	0.0%	34	0	0.0%
Hyperlipidemia	0.000	35	0	0.0%	34	0	0.0%
Infections, High	6.478	18	10	0.2%	13	40	0.3%
Infections, Medium	0.322	3	1,276	23.4%	7	2,895	23.3%
Infections, Low	0.000	35	0	0.0%	34	0	0.0%
Inflammatory / Autoimmune	0.375	10	550	10.1%	11	1,070	8.6%
Insomnia	0.223	19	266	4.9%	19	743	6.0%
Iron Deficiency	0.281	14	312	5.7%	20	564	4.5%
Irrigating Solution	2.515	20	17	0.3%	16	85	0.7%
Liver Disease	1.670	22	20	0.4%	23	55	0.4%
Malignancies	1.079	15	67	1.2%	17	161	1.3%
Multiple Sclerosis / Paralysis	0.763	6	465	8.5%	10	607	4.9%
Nausea	0.137	16	494	9.1%	18	1,211	9.8%
Neurogenic Bladder	0.446	21	90	1.6%	21	313	2.5%
Disease Categories							
Osteoporosis / Paget's	0.000	35	0	0.0%	34	0	0.0%
Pain	0.167	7	1,830	33.5%	8	3,972	32.0%
Parkinsons / Tremor	0.191	26	115	2.1%	22	672	5.4%
Prenatal Care	0.000	35	0	0.0%	34	0	0.0%
Psychotic Illness / Bipolar	0.000	35	0	0.0%	34	0	0.0%
Replacement Solution	0.311	11	447	8.2%	12	1,037	8.4%
Seizure Disorders	0.600	5	650	11.9%	2	2,033	16.4%
Thyroid Disorder	0.126	24	202	3.7%	24	720	5.8%
Transplant	0.000	35	0	0.0%	34	0	0.0%
Tuberculosis	0.565	25	39	0.7%	25	96	0.8%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		5,455			12,412		17,867
Unadjusted Risk Score		1.145			1.225		1.201
Normalized Risk Score		**0.954**			**1.020**		**1.000**

Stanislaus County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	13	0.4%	n/a	20	0.2%
Age 1 to 4	0.921	n/a	208	6.6%	n/a	174	2.0%
Age 5 to 14 Male	0.496	n/a	409	13.1%	n/a	510	5.7%
Age 5 to 14 Female	0.706	n/a	188	6.0%	n/a	271	3.0%
Age 15 to 24 Male	0.232	n/a	257	8.2%	n/a	712	8.0%
Age 15 to 24 Female	0.261	n/a	177	5.7%	n/a	419	4.7%
Age 25 to 44 Male	0.213	n/a	154	4.9%	n/a	981	11.0%
Age 25 to 44 Female	0.066	n/a	438	14.0%	n/a	958	10.7%
Age 45 to 64 Male	0.269	n/a	323	10.3%	n/a	1,608	18.0%
Age 45 to 64 Female	0.079	n/a	875	27.9%	n/a	2,470	27.7%
Age 65+ Male and Female	0.164	n/a	90	2.9%	n/a	797	8.9%
Age Subtotal		n/a	3,132	100.0%	n/a	8,920	100.0%
Disease Categories							
Alcoholism	0.189	33	2	0.1%	34	3	0.0%
Alzheimers	0.000	34	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	12	45	1.4%	10	218	2.4%
Asthma / COPD	0.376	1	984	31.4%	4	2,117	23.7%
Attention Deficit	0.000	34	0	0.0%	35	0	0.0%
Burns	0.170	31	26	0.8%	33	56	0.6%
Cardiac	0.299	4	1,107	35.3%	1	3,528	39.6%
Cystic Fibrosis	0.773	29	7	0.2%	25	46	0.5%
Depression / Anxiety	0.091	13	864	27.6%	14	2,119	23.8%
Diabetes	0.477	8	485	15.5%	6	1,585	17.8%
Ears, Eyes, Nose, and Throat (EENT)	0.000	34	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	10	28	0.9%	8	100	1.1%
Folate Deficiency	0.726	21	52	1.7%	18	193	2.2%
CMV Retinitis	0.992	32	3	0.1%	32	11	0.1%
Gastric Acid Disorder	0.367	6	802	25.6%	3	2,457	27.5%
Glaucoma	0.239	27	31	1.0%	28	116	1.3%
Gout	0.000	34	0	0.0%	35	0	0.0%
Growth Hormone	2.921	28	2	0.1%	27	10	0.1%
Hemophilia / von Willebrand's	26.452	34	0	0.0%	21	4	0.0%
Hepatitis	0.990	30	5	0.2%	30	17	0.2%
Herpes	0.146	25	68	2.2%	29	157	1.8%
HIV	0.000	34	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	34	0	0.0%	35	0	0.0%
Infections, High	6.478	18	7	0.2%	15	29	0.3%
Infections, Medium	0.322	5	953	30.4%	5	2,365	26.5%
Infections, Low	0.000	34	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	9	398	12.7%	11	830	9.3%
Insomnia	0.223	14	320	10.2%	13	931	10.4%
Iron Deficiency	0.281	16	192	6.1%	19	469	5.3%
Irrigating Solution	2.515	24	5	0.2%	26	14	0.2%
Liver Disease	1.670	20	25	0.8%	24	52	0.6%
Malignancies	1.079	15	51	1.6%	16	151	1.7%
Multiple Sclerosis / Paralysis	0.763	3	438	14.0%	9	577	6.5%
Nausea	0.137	17	363	11.6%	20	897	10.1%
Neurogenic Bladder	0.446	19	99	3.2%	17	322	3.6%
Disease Categories							
Osteoporosis / Paget's	0.000	34	0	0.0%	35	0	0.0%
Pain	0.167	7	1,538	49.1%	7	3,774	42.3%
Parkinsons / Tremor	0.191	23	104	3.3%	23	491	5.5%
Prenatal Care	0.000	34	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	34	0	0.0%	35	0	0.0%
Replacement Solution	0.311	11	329	10.5%	12	858	9.6%
Seizure Disorders	0.600	2	561	17.9%	2	1,691	19.0%
Thyroid Disorder	0.126	22	235	7.5%	22	803	9.0%
Transplant	0.000	34	0	0.0%	35	0	0.0%
Tuberculosis	0.565	26	17	0.5%	31	26	0.3%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		3,132			8,920		12,052
Unadjusted Risk Score		1.412			1.311		1.337
Normalized Risk Score		**1.056**			**0.980**		**1.000**

Final

Tulare County

Risk Categories	Disabled Weight	Managed Care			Fee-for-Service		
		Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions	Disease Impact Rank	Scored Recipient Counts	Combined Category Distributions
Demographic Categories							
Under Age 1	1.605	n/a	23	0.7%	n/a	9	0.1%
Age 1 to 4	0.921	n/a	301	9.0%	n/a	115	1.7%
Age 5 to 14 Male	0.496	n/a	554	16.5%	n/a	387	5.7%
Age 5 to 14 Female	0.706	n/a	290	8.7%	n/a	239	3.5%
Age 15 to 24 Male	0.232	n/a	343	10.2%	n/a	613	9.0%
Age 15 to 24 Female	0.261	n/a	216	6.4%	n/a	366	5.4%
Age 25 to 44 Male	0.213	n/a	158	4.7%	n/a	865	12.7%
Age 25 to 44 Female	0.066	n/a	382	11.4%	n/a	742	10.9%
Age 45 to 64 Male	0.269	n/a	318	9.5%	n/a	1,221	17.9%
Age 45 to 64 Female	0.079	n/a	675	20.1%	n/a	1,779	26.1%
Age 65+ Male and Female	0.164	n/a	91	2.7%	n/a	484	7.1%
Age Subtotal		n/a	3,351	100.0%	n/a	6,820	100.0%
Disease Categories							
Alcoholism	0.189	34	0	0.0%	34	1	0.0%
Alzheimers	0.000	34	0	0.0%	35	0	0.0%
Anti-coagulants	1.885	12	49	1.5%	10	155	2.3%
Asthma / COPD	0.376	2	1,008	30.1%	4	1,639	24.0%
Attention Deficit	0.000	34	0	0.0%	35	0	0.0%
Burns	0.170	31	33	1.0%	32	67	1.0%
Cardiac	0.299	6	1,021	30.5%	2	2,518	36.9%
Cystic Fibrosis	0.773	27	13	0.4%	28	33	0.5%
Depression / Anxiety	0.091	16	740	22.1%	16	1,418	20.8%
Diabetes	0.477	8	462	13.8%	6	1,124	16.5%
Ears, Eyes, Nose, and Throat (EENT)	0.000	34	0	0.0%	35	0	0.0%
ESRD / Renal	5.296	9	28	0.8%	7	98	1.4%
Folate Deficiency	0.726	14	100	3.0%	14	216	3.2%
CMV Retinitis	0.992	33	3	0.1%	33	8	0.1%
Gastric Acid Disorder	0.367	5	845	25.2%	3	1,841	27.0%
Glaucoma	0.239	32	19	0.6%	29	101	1.5%
Gout	0.000	34	0	0.0%	35	0	0.0%
Growth Hormone	2.921	25	5	0.1%	26	15	0.2%
Hemophilia / von Willebrand's	26.452	22	1	0.0%	25	2	0.0%
Hepatitis	0.990	28	10	0.3%	27	30	0.4%
Herpes	0.146	30	57	1.7%	31	90	1.3%
HIV	0.000	34	0	0.0%	35	0	0.0%
Hyperlipidemia	0.000	34	0	0.0%	35	0	0.0%
Infections, High	6.478	13	14	0.4%	11	42	0.6%
Infections, Medium	0.322	3	1,052	31.4%	5	1,857	27.2%
Infections, Low	0.000	34	0	0.0%	35	0	0.0%
Inflammatory / Autoimmune	0.375	10	391	11.7%	12	634	9.3%
Insomnia	0.223	20	209	6.2%	15	624	9.1%
Iron Deficiency	0.281	18	219	6.5%	18	345	5.1%
Irrigating Solution	2.515	24	9	0.3%	19	38	0.6%
Liver Disease	1.670	15	41	1.2%	22	54	0.8%
Malignancies	1.079	17	62	1.9%	17	98	1.4%
Multiple Sclerosis / Paralysis	0.763	1	557	16.6%	9	452	6.6%
Nausea	0.137	19	373	11.1%	20	689	10.1%
Neurogenic Bladder	0.446	21	71	2.1%	21	206	3.0%
Disease Categories							
Osteoporosis / Paget's	0.000	34	0	0.0%	35	0	0.0%
Pain	0.167	7	1,387	41.4%	8	2,650	38.9%
Parkinsons / Tremor	0.191	26	74	2.2%	23	365	5.4%
Prenatal Care	0.000	34	0	0.0%	35	0	0.0%
Psychotic Illness / Bipolar	0.000	34	0	0.0%	35	0	0.0%
Replacement Solution	0.311	11	389	11.6%	13	621	9.1%
Seizure Disorders	0.600	4	563	16.8%	1	1,457	21.4%
Thyroid Disorder	0.126	23	181	5.4%	24	453	6.6%
Transplant	0.000	34	0	0.0%	35	0	0.0%
Tuberculosis	0.565	29	16	0.5%	30	31	0.5%
Risk Adjustment Results		**Plan Total**			**FFS Total**		**County Total**
Scored Members		3,351			6,820		10,171
Unadjusted Risk Score		1.464			1.350		1.388
Normalized Risk Score		**1.055**			**0.973**		**1.000**